



# Wright Technologies Inc.

## Broadband Frequency Operation

<b>TECHNICAL DATA SHEET</b>
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**RoHS COMPLIANT**

<b>ASL40-B3007</b>
<b>0001</b>

### FEATURES

- |                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                              |
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| <ul style="list-style-type: none"> <li>* 18-40 Ghz Frequency Operation</li> <li>* P-1dB: +7 dBm minimum</li> <li>* Small Signal Gain: 30 dB minimum</li> <li>* Gain Flatness: +/- 2.5 dB full band</li> <li>* High Output IP3: 17 dBm typ.</li> <li>* Noise Figure: 3.5 dB maximum</li> </ul> | <ul style="list-style-type: none"> <li>* 50 Ohm Input and Output Matched</li> <li>* -20 to +75 °C Operating Temperature</li> <li>* Unconditionally Stable</li> <li>* Single DC Bias Supply</li> <li>* Built-in DC Voltage regulation</li> <li>* Small Size and Weight, Yet Robust</li> </ul> |
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### APPLICATIONS

- |                                                                                                                                                                                       |                                                                                                                                                                                                       |                                                                                                                                                                                             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>Laboratory Applications</li> <li>R&amp;D Lab Use</li> <li>Radar Systems</li> <li>Electronic Warfare</li> <li>Telecom Infrastructure</li> </ul> | <ul style="list-style-type: none"> <li>Test Instrumentation</li> <li>Military and Space</li> <li>Communications Systems</li> <li>Satellite Communications</li> <li>Wireless Communications</li> </ul> | <ul style="list-style-type: none"> <li>Microwave Radio Systems</li> <li>Power Amplifier</li> <li>General Purpose Amplifier</li> <li>RF Front Ends</li> <li>Fiber Optic Interface</li> </ul> |
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Freq. In GHz	Gain dB	P-1 dBm	Input VSWR	Output VSWR	Noise dB
18.0	37.6	10.8	1.11	1.29	3.4
23.5	37.3	11.3	2.44	2.19	3.2
29.0	34.8	10.9	1.59	1.13	2.8
34.5	36.6	11.0	1.52	1.21	3.3
40.0	34.6	8.2	1.92	1.62	3.5
Min.	34.5	8.2	---	---	---
Max.	38.5	---	2.49	2.27	3.5
Spec.	30-40	7.0 Min	2.50 Max	2.50 Max	3.5 Max

$$\text{Bias @ +12.0 V, IT} = \frac{200}{200} \text{ mA TYP}$$

All Measurements Taken at 25°C Ambient Room

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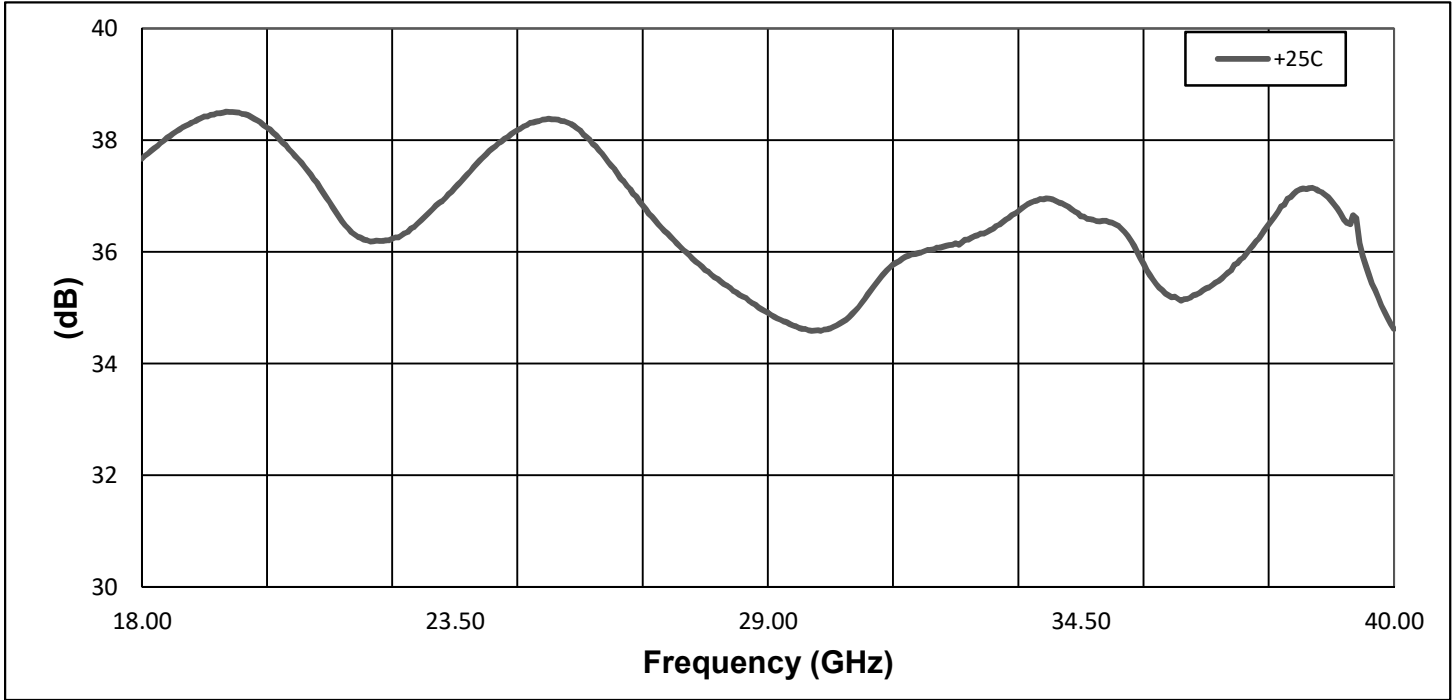
Broadband Frequency Operation

DATA PLOTS

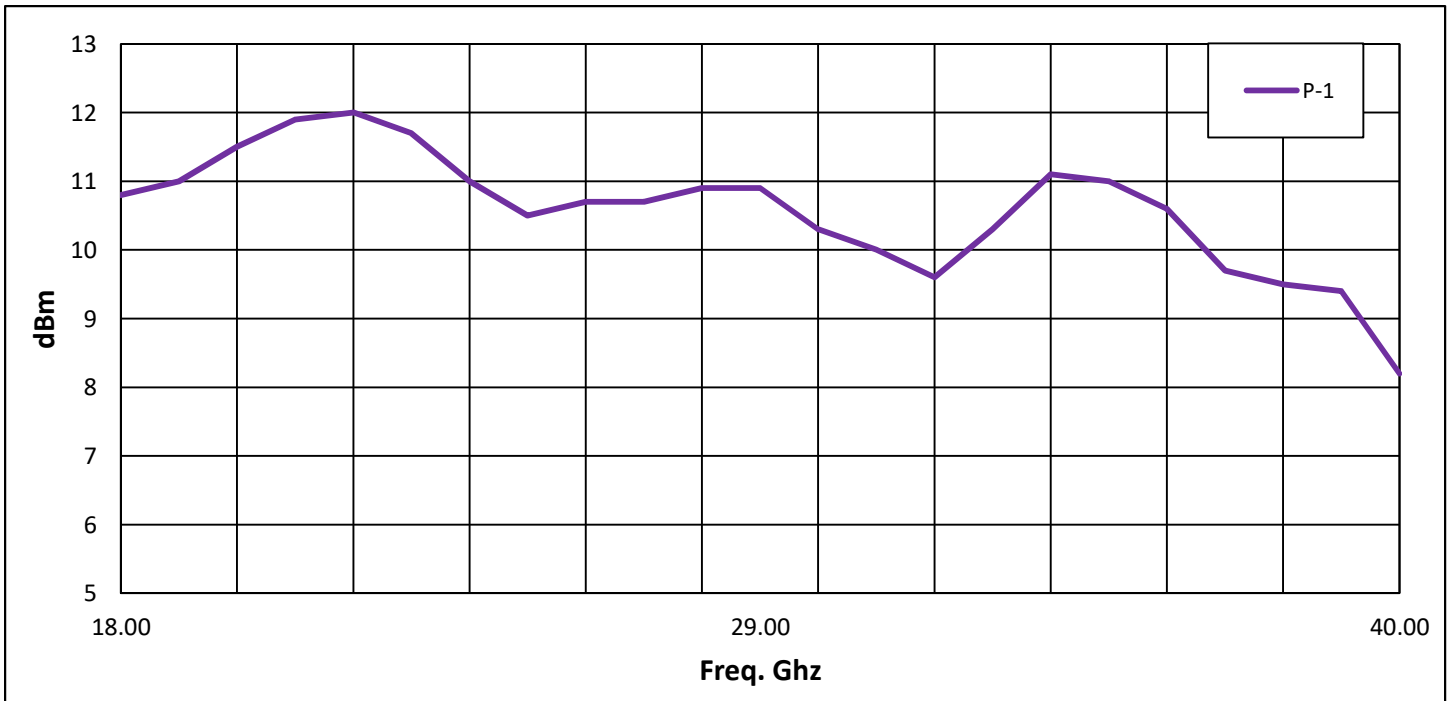
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## Gain



## Power dBm





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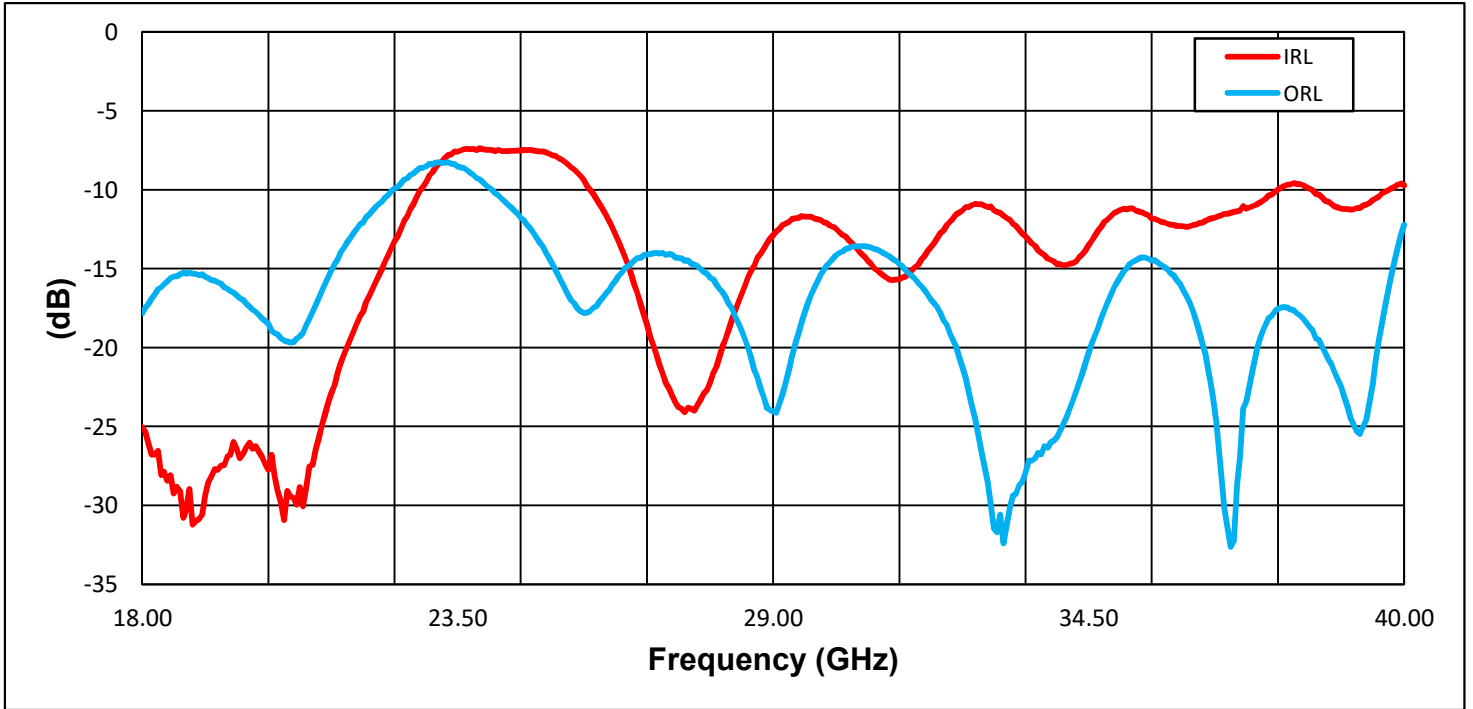
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## Return Loss



## Noise (18-40 GHz)

